user's information manual

PACKAGED AIR CONDITIONERS

PA1Z

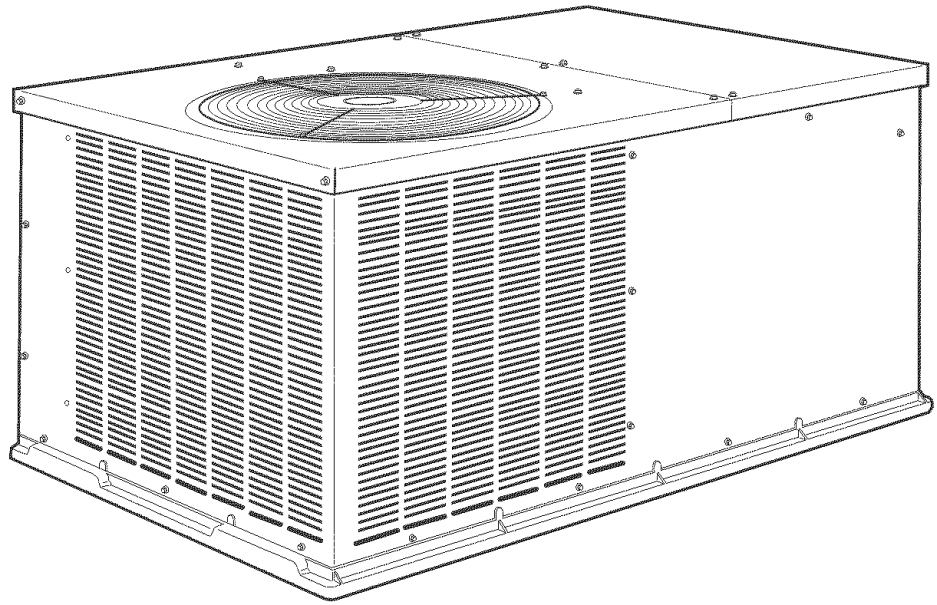
Sizes 024-060

Cancels: New

OM01-56
11/15/97

NOTE TO INSTALLER:
This manual should be left with the equipment owner.

⚠ **WARNING:** Before performing recommended maintenance, be sure main power switch to unit is turned off. Electrical shock could cause personal injury.



PA1Z Packaged Air Conditioner

WELCOME TO EFFICIENT COOLING COMFORT

Congratulations on your excellent choice and sound investment in home cooling comfort!

Your new air conditioner represents both the latest in engineering development and the culmination of many years of experience from one of the most reputable manufacturers of comfort systems.

Your new unit is among the most energy-efficient and reliable air-conditioning products available today. To assure its dependability, spend just a few minutes with this booklet now. Learn about the operation of your air conditioner and the small amount of maintenance it takes to keep it operating at its peak efficiency.

With minimal care, your air conditioner will provide you and your family with satisfying home comfort — both now and for years to come.

IMPORTANT FACTS

To better protect your investment and to eliminate unnecessary service calls, familiarize yourself with the following facts:

⚠ **WARNING:** Improper installation, adjustment, alteration, service, maintenance or use can cause explosion, fire, electrical shock or other conditions which may cause personal injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency, distributor, or branch. The qualified installer or agency must use only factory authorized kits or accessories when modifying this product.

- Your air-conditioning system should never be operated without a clean air filter properly installed. Plan to inspect the filter periodically. A clogged air filter will increase operating costs and shorten the life of the unit.
- Supply-air and return-air registers should not be blocked. Drapes, furniture, and toys are some of the items commonly found obstructing grilles. Restricted airflow lessens the unit's efficiency and life span.
- Outdoor units must have unrestricted airflow. Do not cover the unit, lean anything against it, or stand upon it. Do not allow grass clippings, leaves, or other debris to accumulate around or on top of the unit. Maintain a 12-in. minimum clearance between the outdoor unit and tall grass, vines, shrubs, et cetera.
- Your multipurpose indoor thermostat is the control center for your air-conditioning system. You should familiarize yourself with its proper operation. Attempting to control the system by other means — for instance, switching the electrical supply power ON and OFF — may cause damage to the unit.
- Thermostat "jiggling" causes rapid-cycling, which is potentially damaging to the compressor. Do not move the temperature selector on the thermostat for any reason for at least 5 minutes after the compressor has shut off.
- You may find that you can maintain greater personal comfort by running the fan continuously. "Air pockets" can form due to the structure of the building, placement of registers, et cetera. These air pockets may be too cool or warm for your liking. Continuous fan operation minimizes any temperature differences. Also, systems equipped with electronic air cleaners and/or humidifiers offer the added benefits of having the air continuously cleaned year-round, and humidified during the winter season.
- Your air conditioner will remove humidity from your home during the cooling season. After a few minutes of operation, you should be able to see water trickle from the condensate drain of the cooling coil. Check this occasionally to be sure the drain system is not clogged. Of course, do not expect to see much drainage if you live in a very dry environment.

OPERATING YOUR AIR CONDITIONER

The operation of your air-conditioning system is controlled by the indoor thermostat. You simply adjust the thermostat and it maintains the indoor temperature at the level you select. Most thermostats for air-conditioning systems have three controls. These are the temperature control selector, FAN switch, and SYSTEM switch.

The temperature control selector is a dial or lever that allows you to establish the degree of temperature that you wish to maintain for your personal comfort. Some thermostats possess two temperature control selectors: one for setting the temperature desired during the cooling cycle, and one to set the heating operation temperature (if the accessory electric heater is used). Typical settings are 78 degrees Fahrenheit for cooling and 68 degrees for heating.

The FAN switch offers two options for controlling the blower: AUTO and ON. When set to AUTO, the blower will run during the time the air conditioner is operating. When the FAN switch is set at the ON position, the blower will run continuously.

Typically, the SYSTEM switch on your thermostat offers the following selections: COOL, OFF, and HEAT. Your thermostat may also have a fourth selection, AUTO. The air conditioner will not operate when the SYSTEM switch is set at the OFF position. With the SYSTEM switch set at COOL, the cooling section of your comfort system will operate when the indoor temperature rises above the level that you wish to maintain. With the SYSTEM switch set at the HEAT position, the accessory electric heater will operate automatically whenever the indoor temperature falls below the level that you have selected.

The AUTO selection found on some thermostats provides for automatic changeover between cooling and heating cycles. With the SYSTEM switch set in the AUTO position, the cooling mode is activated when the indoor temperature rises above the thermostat cooling temperature setting, or the heating mode will be activated when the indoor temperature drops below the thermostat setting for the heating cycle.

I. COOLING CYCLE

When operating in the cooling cycle, your air conditioner will run until the indoor temperature is lowered to the level you have selected. On extremely hot days, your air conditioner will run for longer periods at a time and have shorter "off" periods than on moderate days.

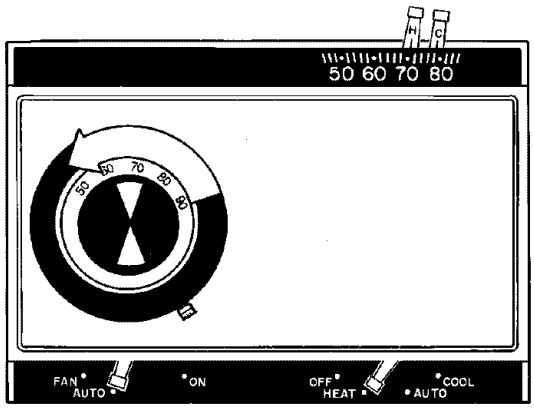
The following are typical conditions that add extra heat and/or humidity to your home. Your air conditioner will work longer to keep your home comfortable under these conditions:

- Entrance doors are frequently opened and closed
- Laundry appliances are being operated
- A shower is running
- More than the usual number of people are present in the home
- More than the normal number of electric lights are in use
- Drapes are open on the sunny side of the home

II. HEATING CYCLE

If you own a packaged air conditioner that includes electric heat as an accessory, you need only program your thermostat for heating.

With the SYSTEM switch of your indoor thermostat set to the HEAT position, the heating section of your home comfort system will operate until room temperature is raised to the level you have selected. Of course, the heating unit will have to operate for longer periods to maintain a comfortable environment on colder days and nights than on moderate ones.



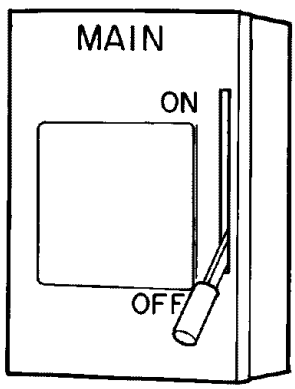
PERFORMING ROUTINE MAINTENANCE

With the proper maintenance and care, your air conditioner will operate economically and dependably. Maintenance can be accomplished easily by referring to the following directions. However, before performing maintenance, consider these important safety precautions:

⚠ **WARNING:** Disconnect all electrical power to the air conditioner before performing service or maintenance. Do not remove access panels. Disconnect power to any supplemental electric heaters.

NOTE: There may be more than one electrical disconnect switch.

⚠ **CAUTION:** Although special care has been taken to minimize sharp edges in the construction of your unit, be extremely careful when handling parts. Do not reach into the unit.



I. CHECK THE AIR FILTER

A dirty air filter will cause excessive strain on the compressor and blower motor. This can cause the components to overheat and automatically shut down. In the extreme, the components will fail and need to be replaced. To avoid inefficient or failed operation of your unit, CHECK THE FILTER(S) EVERY 3 TO 4 WEEKS. Replace filter(s) when necessary, or clean the filter(s) if you have the reusable type.

Disposable filters should be replaced by similar, new filters of the same dimensions.

Reusable, permanent filters should be washed in a solution of cold water and mild detergent, then rinsed and thoroughly dried. THE FILTER MUST BE COMPLETELY DRY BEFORE BEING REINSTALLED. To avoid prolonged shutdown of your unit while a filter is drying, you should have an extra filter on hand. This would allow you to rotate between the two with minimal downtime for your comfort system. Extra filters may be purchased from your dealer.

The filter(s) and filter rack for a packaged system are supplied and installed by the contractor or dealer. Typically, the filter(s) and rack are located in the return-air duct at the outdoor unit or behind the return-air grille(s). Have your dealer show you the location of your filter(s) and the procedures for removal and replacement.

If you have any questions about the removal and/or cleaning of your filter(s), contact your dealer for assistance.

If grass clippings, leaves, shrubbery, and debris are kept away from the unit, minimal care should be sufficient to keep the system functioning properly. However, if the outdoor coil becomes dirty, use a brush or vacuum cleaner and soft brush attachment to clean the exterior surface. If dirt is deep in the coil, contact your dealer for service. The outdoor-fan motor may have to be disconnected and the top panel removed to gain access to the coil for thorough cleaning. Do not attempt this yourself.

II. UNIT SUPPORT

Your packaged unit should be maintained at a level position. If its support should shift or settle so that the unit is no longer level, you should correct the condition. Relevel it promptly to assure condensate drainage out of the unit. If you notice that water or ice collects beneath the unit, arrange for it to be drained away from the unit.

BEFORE YOU CALL FOR SERVICE, CHECK FOR THESE EASILY SOLVED PROBLEMS

Check the indoor and outdoor disconnect switches. Verify that circuit breakers are ON.

Check for sufficient airflow. Check the air filter(s) for any accumulations of dirt. Check for blocked return-air or supply-air grilles. Be sure grilles are open and unobstructed.

Check the settings on your indoor thermostat. If you desire cooling, see that the temperature control selector is set below room temperature and the SYSTEM switch is on the COOL or AUTO position. If you require warmth, be sure the temperature control selector is set above room temperature and the SYSTEM switch is at HEAT or AUTO. The FAN switch should be set at ON for continuous blower operation or AUTO if you wish the blower to function only while the unit is operating.

If your comfort system still fails to operate, contact your servicing dealer for troubleshooting and repairs. Specify your apparent problem, and state the model and serial numbers of your equipment. (You should have them recorded on page 4 of this booklet.) With this information, your dealer may be able to offer helpful suggestions over the phone, or save valuable time through knowledgeable preparation for the service call.

REGULAR DEALER MAINTENANCE

In addition to the routine maintenance that you perform, your home comfort system should be inspected regularly by a properly trained service technician. The inspection (preferably each year, but at least every other year) should include the following:

- Routine inspection of air filter(s). Replacement or cleaning as required.
- Inspection and cleaning of the blower wheel, housing, and motor. Service should include proper lubrication of these components.
- Inspection and, if required, cleaning of indoor (evaporator) and outdoor (condenser) coils.
- Inspection of the indoor coil drain pan, plus the primary and secondary drain lines. Service should include cleaning if required.
- A check of all electrical wiring and connections.
- A check for secure physical connections of individual components within units.
- Operational check of the air conditioning system to determine actual working condition. Necessary repair and/or adjustment should be performed at this time.

WARRANTIES

The PA1Z units have a warranty located at the back of this book. Be sure to read the warranty carefully to determine the coverage for your unit.

FOR THE RECORD

Record the model, product, and serial numbers of your new equipment in the spaces provided below. This information, along with the other ready-reference facts requested below, will be necessary should you ever require information or service.

INSTALLATION DATA

Date Installed _____

Dealer Name _____

Address _____

City _____

State _____ Zip _____

Telephone _____

UNIT DATA

Product No. _____

Model No. _____

Serial No. _____

Heater, if applicable:

Part No. _____

Kilowatt Rating _____

DETACH & MAIL PRODUCT REGISTRATION CARD

STAPLE OR TAPE HERE

IMPORTANT: Complete, detach and mail immediately for . . .

PRODUCT REGISTRATION

THE FEDERAL CONSUMER PRODUCT SAFETY ACT REQUIRES THAT YOU BE NOTIFIED OF ANY RECALLS INVOLVING THIS PRODUCT. YOUR NAME AND ADDRESS AND THE MODEL AND SERIAL NUMBERS OF YOUR PRODUCT WILL ASSIST US IN NOTIFYING YOU SHOULD THE NEED ARISE.

Your warranty coverage is not dependent upon the return of this card.

1. 1. ☐ Mr. 2. ☐ Mrs. 3. ☐ Ms. 4. ☐ Miss

Name (First/Initial/Last)

Street

City State Zip

MODEL NO. (Copy from rating plate on unit.) SERIAL NO.

2. DATE INSTALLED ___/___/___
Mo. Day Yr.

3. What product did you purchase?
1. ☐ Central air conditioner
2. ☐ Gas furnace
3. ☐ Oil furnace
4. ☐ Electric furnace
5. ☐ Heat pump

4. When did you acquire your product?
1. ☐ Upon purchase of new dwelling
2. ☐ To replace an older system manufactured by our company
3. ☐ To replace an older system manufactured by a competitor
4. ☐ Within a year of buying new dwelling with no central air system
5. ☐ 2-4 years after buying dwelling with no central air system
6. ☐ Over 4 years after buying dwelling with no central air system

5. If this was a replacement product, how old was the original?
1. ☐ 1-5 years
2. ☐ 6-8 years
3. ☐ 9-11 years
4. ☐ 12-14 years
5. ☐ 15-17 years
6. ☐ 18 & over years

6. Your product is installed in?
1. ☐ Single family/Townhouse
2. ☐ Multi-family: 2-4
3. ☐ Mobile home
4. ☐ Apartment: 1-3 floors
5. ☐ Apartment: 4 + floors
6. ☐ Office/Bank
7. ☐ Store
8. ☐ Hospital/School
9. ☐ Manufacturing building
10. ☐ Other

7. What 2 factors most influenced your purchase?
1. ☐ Our reputation
2. ☐ Friend's recommendation
3. ☐ Contractor/Dealer's recommendation
4. ☐ Price
5. ☐ Energy efficiency
6. ☐ Ready availability
7. ☐ Radio ads
8. ☐ T.V. ads
9. ☐ Newspaper ads
10. ☐ Magazine ads
11. ☐ Dealer display

8. Which of the following have you done in the past 6 months? (check all that apply)
1. ☐ Redeemed a product coupon
2. ☐ Ordered an item from mail order catalog
3. ☐ Sent in product inquiry card from magazine
4. ☐ Bought an item from offer received in mail
5. ☐ Entered sweepstakes/contest

9. In which age group are you?
1. ☐ 18-24
2. ☐ 25-34
3. ☐ 35-44
4. ☐ 45-54
5. ☐ 55-64
6. ☐ 65 & over

10. Marital status:
1. ☐ Married 2. ☐ Unmarried

11. Which group best describes your family income?
1. ☐ Under $10,000
2. ☐ $10,000-$14,999
3. ☐ $15,000-$19,999
4. ☐ $20,000-$24,999
5. ☐ $25,000-$29,999
6. ☐ $30,000-$34,999
7. ☐ $35,000-$39,999
8. ☐ $40,000-$44,999
9. ☐ $45,000-$49,999
10. ☐ $50,000 & over

12. Do you have any children in any of the following age groups who are living at home?
1. ☐ Under age 2
2. ☐ Age 2-4
3. ☐ Age 5-7
4. ☐ Age 8-10
5. ☐ Age 11-12
6. ☐ Age 13-15
7. ☐ Age 16-18

13. For your primary residence, do you:
1. ☐ Own a house?
2. ☐ Rent a house?
3. ☐ Own a townhouse/condominium?
4. ☐ Rent an apartment?

14. Which of the following types of credit cards do you use?
1. ☐ Travel/Entertainment (American Express, Diners Club, Carte Blanche)
2. ☐ Bank (Master Charge, Visa)
3. ☐ Gas, department store, etc.

15. What is your occupation? (check one)
1. ☐ Professional/Technical
2. ☐ Upper Mgt./Administrator
3. ☐ Sales/Service/Middle Mgt.
4. ☐ Clerical/White Collar
5. ☐ Craftsman/Blue Collar
6. ☐ Student
7. ☐ Housewife
8. ☐ Retired

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16. Which of the following interests and hobbies do you and your family enjoy?
1. ☐ Tennis
2. ☐ Golf
3. ☐ Snow Skiing
4. ☐ Running/Jogging
5. ☐ Camping/Hiking
6. ☐ Hunting/Shooting
7. ☐ Fishing
8. ☐ Bicycling
9. ☐ Racquetball
10. ☐ Sailing/Boating
11. ☐ Stamp/Coin Collecting
12. ☐ Motorbiking/Motorcycling
13. ☐ Home Video Games
14. ☐ Physical Fitness/Exercise
15. ☐ Home Video Recording
16. ☐ Recreational Vehicle/4-WD
17. ☐ Photography
18. ☐ CB Radio
19. ☐ Home Workshop/Do-It-Yourself
20. ☐ Gardening/Plants
21. ☐ Electronics
22. ☐ Automotive Work
23. ☐ Sewing/Needlework
24. ☐ Crafts
25. ☐ Collectibles/Collections
26. ☐ Art & Antiques
27. ☐ Stereo Music Equipment
28. ☐ Foreign Travel
29. ☐ Attending Cultural/Arts Events
30. ☐ Gourmet Foods/Cooking
31. ☐ Health/Natural Foods
32. ☐ Wines
33. ☐ Fashion Clothing
34. ☐ Home Furnishings/Decorating
35. ☐ Records & Tapes
36. ☐ Avid Book Reading
37. ☐ Science Fiction
38. ☐ Astrology/Occult
39. ☐ Stock/Bond Investments
40. ☐ Real Estate Investments
41. ☐ Self Improvement Programs
42. ☐ Community/Civic Activities

We appreciate your taking the time to complete this card; the information provided will help us serve you better in the future. We participate in a multi-company program whereby you can receive information about new products, developments, trends, etc. related to the interest areas and other information you have indicated above. Please check here if you would prefer not to learn about such products and services. ☐

Other comments & suggestions about our product:

Fold Here

PLACE FIRST CLASS STAMP HERE

CAC/BDP
Product Registration Center
P.O. Box 173246
Denver, Colorado 80217

PAYNE BRAND

FOR SERVICE OR REPAIR, FOLLOW THESE STEPS IN ORDER:

FIRST: Contact the installer. You may find his name on the product or in your User's Manual. If his name is not known, call your builder if yours is a new residence.

SECOND: Contact the nearest distributor. (See telephone yellow pages.)

THIRD: Contact:

Payne Co.
Consumer Relations
P.O. Box 4952
Syracuse, New York 13221
Phone: 1-888-41PAYNE (888-417-2963) (TOLL FREE) from U.S.A.
1-315-432-7885 from Canada

Model No. _____ Unit Serial No. _____

Date of Installation _____ Installed by _____

Name of Owner _____ Address of Installation _____

OUTDOOR COOLING, HEATING-COOLING, OR HEATING PRODUCT
(Units Smaller Than 185,000-Btuh Cooling Capacity)
LIMITED WARRANTY

LIMITED 1-YEAR WARRANTY—This CARRIER CORPORATION (herein after referred to as "COMPANY") product is warranted to be free from defects in material and workmanship under normal use and maintenance for a period of 1 year from the date of original installation whether or not actual use begins on that date. A new or remanufactured part, at the COMPANY'S sole option, to replace any defective part will be provided, within a reasonable time after return of the defective part, without charge for the part itself: PROVIDED the defective part is returned to our distributor through a qualified servicing dealer. The replacement part assumes the unused portion of the warranty.

THIS WARRANTY DOES NOT INCLUDE LABOR OR OTHER COSTS incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts or complete unit. Such costs may be covered by a separate warranty provided by the installer.

EXTENDED LIMITED 4-YEAR WARRANTY ON COMPRESSOR ONLY — During the second through fifth years after the date of original installation, the COMPANY further warrants the compressor against defects in material or workmanship under normal use and maintenance. A new or remanufactured compressor, at the COMPANY'S sole option, will be provided under the same conditions as stated in the 1-YEAR WARRANTY.

THIS EXTENDED WARRANTY DOES NOT INCLUDE LABOR OR OTHER COSTS incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts.

THESE WARRANTIES APPLY ONLY TO PRODUCTS IN THEIR ORIGINAL INSTALLATION LOCATION AND BECOME VOID UPON REINSTALLATION.

LIMITATIONS OF WARRANTIES—ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED 1 YEAR WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON WHATSOEVER.

ALL WORK UNDER THE TERMS OF THIS WARRANTY SHALL BE PERFORMED DURING NORMAL WORKING HOURS. ALL REPLACEMENT PARTS, WHETHER NEW OR REMANUFACTURED, ASSUME AS THEIR WARRANTY PERIOD ONLY THE REMAINING TIME PERIOD OF THIS WARRANTY.

THE COMPANY WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or owners manual including coil cleaning, filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the COMPANY.
5. Parts not supplied or designated by the COMPANY, or damages resulting from their use.
6. COMPANY products installed outside the continental U.S.A., Alaska, Hawaii and Canada.
7. Electricity or fuel costs or increases in electricity or fuel costs from any reason whatsoever including additional or unusual use of supplemental electric heat.
8. ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Effective on product manufactured after July 1, 1987. Supersedes any other warranty certificates supplied with the product.

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